



PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference 03-F-087PCT		FOR FURTHER ACT	TION	See Form PCT/IPEA/416			
International application No.		International filing date	(day/month/year)	Priority date (day/month/year)			
PCT/JP2003/013928		30 October 2003		30 October 2002 (30.10.2002)			
International Patent Classification (IPC) or national classification and IPC C22C 1/02, G06F 17/50							
Applicant NATIONAL INSTITUTE FOR MATERIALS SCIENCE							
1. This Auth	 This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36. 						
2. This	REPORT consists of a total of	f 4 sheets, i	ncluding this cover	sheet.			
	report is also accompanied by						
a. [(sent to the applicant ar	nd to the International Bure	eau) a total of	sheets, as follows:			
a. [sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).						
	sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.						
b. (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s)) , containing a sequence listing and/or tables related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the							
	Administrative Instruct	ions).					
4. Thi	s report contains indications re	elating to the following iter	ns:	3			
	Box No. I Basis of the	report		Į			
	Box No. II Priority						
	Box No. III Non-establ	ishment of opinion with reg	gard to novelty, inve	entive step and industrial applicability			
		ity of invention					
	Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement						
	Box No. VI Certain documents cited						
	3	fects in the international ap					
	Box No. VIII Certain ob	servations on the internatio	nal application				
Date of su	bmission of the demand		Date of completio	n of this report			
	05 April 2004 (05.04.2004)			5 August 2004 (25.08.2004)			
Name and	Name and mailing address of the IPEA/JP			r			
Facsimile No.		Telephone No.					

Form PCT/IPEA/409 (cover sheet) (January 2004)

Translation

International application No.

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

PCT/JP2003/013928

Box No.	I	Bas	is of the report					
1. With r	vise i	indica	he language, this report is based on the international application in the language in which it was filed, unless ated under this item.					
	Thi	o ren	ort is based on translations from the original language into the following language, language of a translation furnished for the purpose of:					
		int	ernational search (under Rules 12.3 and 23.1(b))					
		pu	blication of the international application (under Rule 12.4)					
		int	ernational preliminary examination (under Rules 55.2 and/or 55.3)					
furnis	2. With regard to the elements of the international application, this report is based on (replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report):							
	The	inte	rnational application as originally filed/furnished					
	the	desci	ription:					
	pag	es	, as originally filed/furnished					
	pag	es*	received by this Authority on					
	pag	ges*	received by this Authority on					
	the	clain	ns:					
	pag	ges	, as originally filed/furnished					
	pag	ges*	, as amended (together with any statement) under Article 19					
1	pag	ges*	received by this Authority on					
	pag	g e s*	received by this Authority on					
	the	drav	vings:					
	pag	ges	, as originally filed/furnished					
1	pag	ges*	received by this Authority on					
1	pa	ges*	received by this Authority on					
	as	seane	nce listing and/or any related table(s) - see Supplemental Box Relating to Sequence Listing.					
_								
1	i		to divide association of					
3. 🔲	Th		nendments have resulted in the cancellation of:					
		_] t	he description, pages					
ì		t	he claims, Nos.					
	Ī	╕,	he drawings, sheets/figs					
1	Ī	╗	the sequence listing (specify):					
	Ī	٦,	any table(s) related to sequence listing (specify):					
,	_							
4.	m	nade, Rule	eport has been established as if (some of) the amendments annexed to this report and listed below had not been since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box 70.2(c)). the description, pages					
-	ļ							
	ļ		the drawings, sheets/figs					
1	[the sequence listing (specify):					
	[any table(s) related to sequence listing (specify):					
* If item 4 applies, some or all of those sheets may be marked "superseded."								

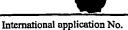


International application No.

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

PCT/JP03/13928

Box No. III	Non-establishment of opinion w	ith regard to novelty, inventive step and industrial applicability				
The questions whether the claimed invention appears to be novel, to involve an inventive step (to be non obvious), or to be industrially applicable have not been examined in respect of:						
☐ t	he entire international application.	·				
\boxtimes .	elaims Nos1, 3-9, 1	1-14				
23 ,	the said international application, or relate to the following subject matte	r which does not require an international preliminary examination (specify).				
Claims 1, 3-9, and 11-14 are a computer program, which does not require an international preliminary examination by the International Preliminary Examining Authority.						
		··				
	·	·				
	the description, claims or drawings are so unclear that no meaningful o	(indicate particular elements below) or said claims Nos pinion could be formed (specify):				
	1					
ļ	·					
	the claims, or said claims Nos by the description that no meaning	ful opinion could be formed.				
	no international search report has been established for said claims Nos					
	the nucleotide and/or amino acid s	equence listing does not comply with the standard provided for in Annex C of the				
	Administrative Instructions in that the written form	has not been furnished				
		does not comply with the standard				
	the computer readable form	has not been furnished				
		does not comply with the standard				
	the tables related to the nucleotide the technical requirements provide	and/or amino acid sequence listing, if in computer readable form only, do not comply with d for in Annex C- bis of the Administrative Instructions.				
	see Supplemental Box for further	details.				



INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

PCT/JP03/13928

	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement						
1. Statement							
Novelty (N)	Claims	2, 10	YES				
	Claims		NO NO				
Inventive step (IS)	Claims		YES				
	Claims	2, 10	NO				
Industrial applicability (IA)	Claims	2, 10	YES				
	Claims		NO				

2. Citations and explanations (Rule 70.7)

Document 1: JP, 3-191032, A (NATIONAL RESEACH INSTITUTE FOR METALS), 21 August 1991 (21.08.91), claims & GB, 2241358, A

Document 2: "Ni-ki Chogokinchu no Hakkinzoku Genso no γ/γ' Sobunpai," (YOKOKAWA ET AL.), Nippon Kinzoku Gakkaishi, September 2002, Vol. 66, No. 9, pages 873-876

Document 3: "Dai 4 Sedai Ni-ki Ichihoko Gyoko Chogokin no Sekkei," (KOBAYASHI, ET

AL.), Nippon Kinzoku Gakkaishi, September 2002, Vol. 6, No. 9, pages 897-900

Document 4: JP, 2002-146460, A (DOKURITSU GYOSEI HOJIN BUSSHITSU – ZAIRYO KENKYU KIKO), 22 May 2002 (22.05.02), claims & EP, 1184473, A2 & US, 2002-62886, A1

Document 5: JP, 5-5143, A (GENERAL ELECTRIC COMPANY), 14 January 1993 (14.01.93), claims & EP, 434966, A1 & US, 5151249, A1 & CA, 2029539, A1

Document 6: HARADA, H et al., "Phase Calculation and Its Use in Alloy Design Program for Nickel-Superalloys," Superalloys 1988, 1988, pages 733-742

Claims 2 and 10

The subject matter of claims 2 and 10 does not involve an inventive step on account of documents 1-6 cited in the ISR. The γ ' precipitation strengthened Ni-based superalloy design support device described in documents 1 and 6 and the γ ' precipitation strengthened Ni-based superalloy with added platinum-group elements such as Ru described in documents 2-5 belong to closely related technical fields, so employing the γ ' precipitation strengthened Ni-based superalloy design support device described in documents 1 and 6 in the γ ' precipitation strengthened Ni-based superalloy with added platinum-group elements described in documents 2-5 could easily be conceived by a person skilled in the art.